Gulf Region Division

U.S. Army Corps of Engineers

Delivering on Progress

www.grd.usace.army.mil

REBUILDING IRAQ

Zanko
Substation

Transformer Placement

Selectarc
Industries

Taji Perimeter Lighting

Baiji Power Plant

Khor Az Zubair Power Plant

KOBELCO
KOBELCO

Erbil Water Treatment Plant

Sadr City Sewer Cleaning

Sweet Water Canal

TO -10 Pump Maintenance

Adhaim Dam

Capacity Development

BIAP

Baghdad Train Station

Advanced First Responder Network

Baghdad International

Baghdad Train

مەتیل

ژیاریادەنی

Before

After

School Programs

Before

After

Al Fathah River Crossing

Stator Blades in Compressor

Flare Tips

Gas/Oil Separation

Basrah Port

Hospital

Northern Border

الله أكبر

الائتلاف
العراقي
الموحد

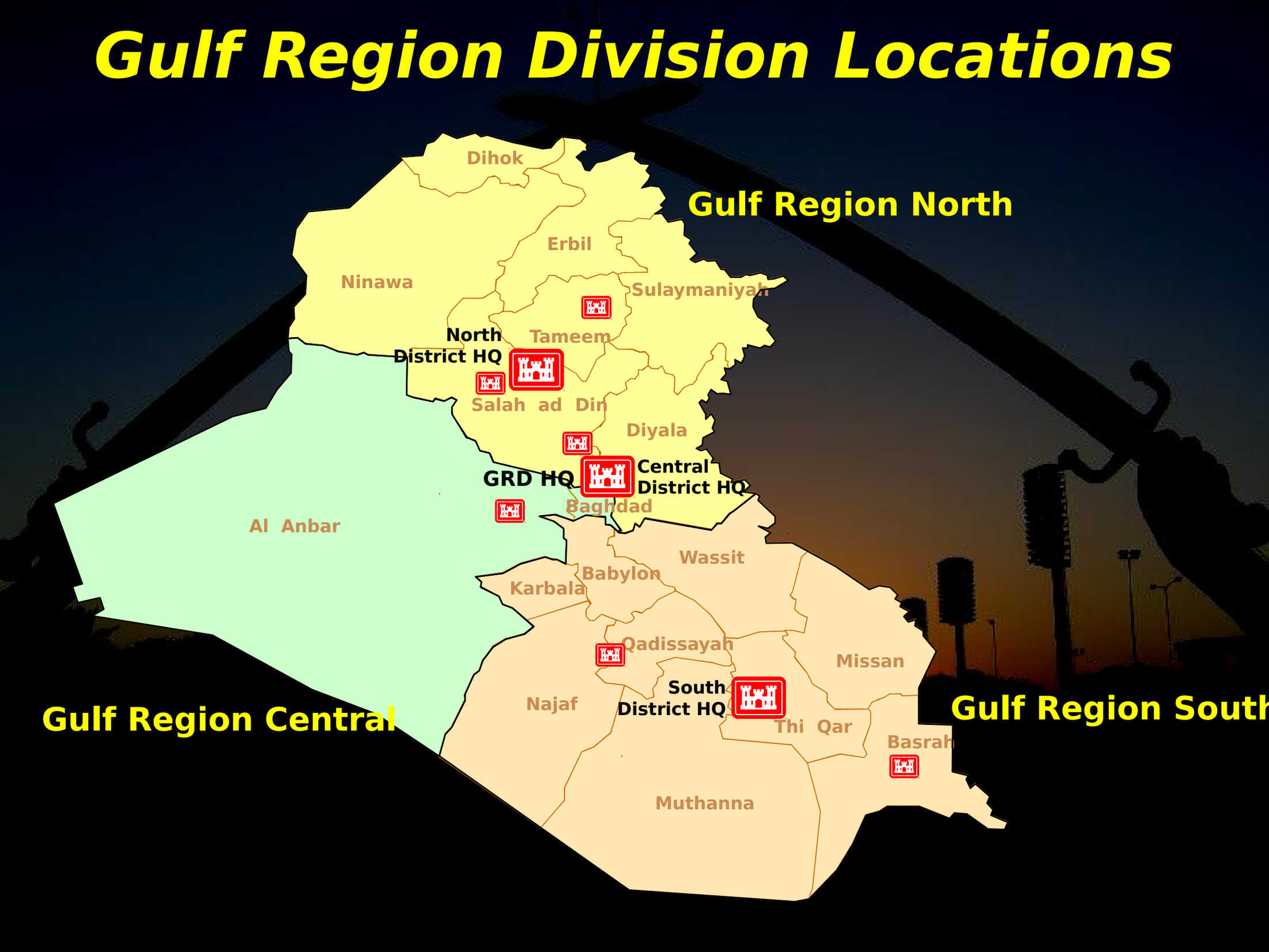
إنتخ

الشعب العراقي شعب مسالم
يمقت الإرهاب و يرفض العنف

وين ما كنت... قلبي بوطني
مستقبل العراق
له صوت: صوتك!
برنامج تصويت العراقيين خارج القطر العراقي

IRAQ
Reconstruction
KADHIMIYAH
THAWRA
7 NISSAN
MANSOUR
KARADAH
RASHEED

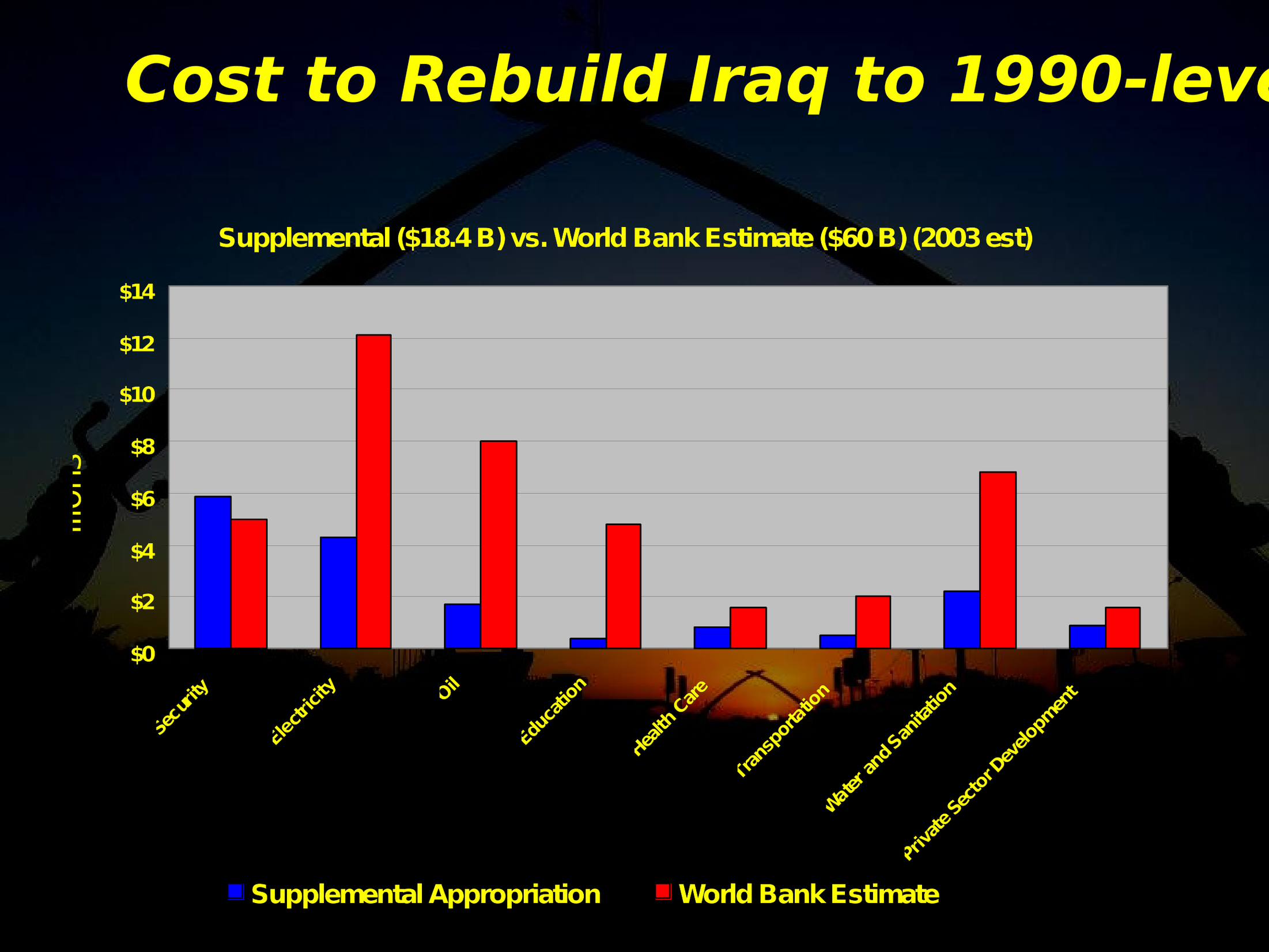
Gulf Region Division Locations



Mission Statement

The Gulf Region Division **provides quality, responsive, and full spectrum engineering services** in Iraq in support of military and civil construction and logistical services, and **aggressively assists the Iraqi Government to assume full responsibility for national reconstruction.**

Cost to Rebuild Iraq to 1990-leve



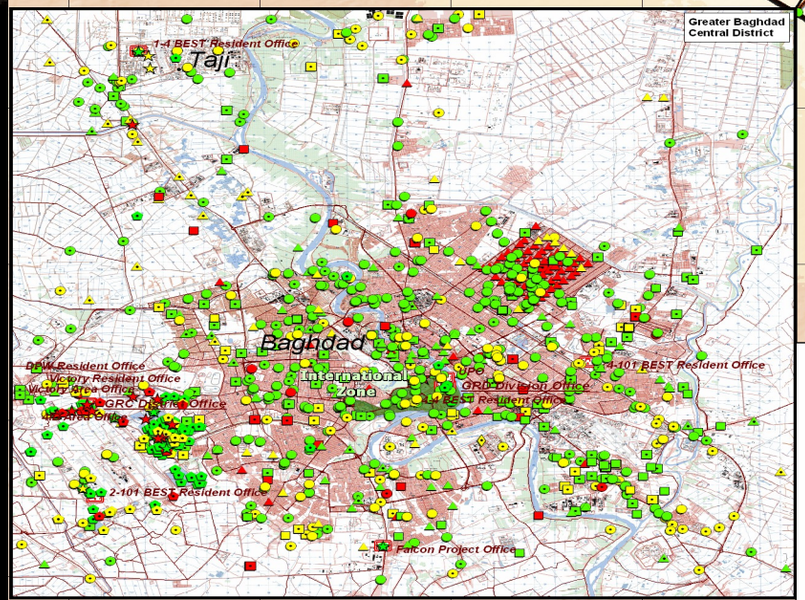
Programmed Projects

	Planned	Completed
Schools	849	835
Health Clinics	148	17
Hospitals	35	21
Water	530	308
Border Posts	255	248
Police Stations	404	350
Military Bases	244	157
Electrical	490	221
Village Roads	181	112
Railroad Stations	99	85
Fire Stations	94	85
Oil	60	27
Other	314	90
Total Projects	3703	2688

(IRRF, DFI – 29 September 2006

Iraqi Reconstruction Projects

as of Sept. 2006



Project Status

- Planned
- Ongoing
- Complete

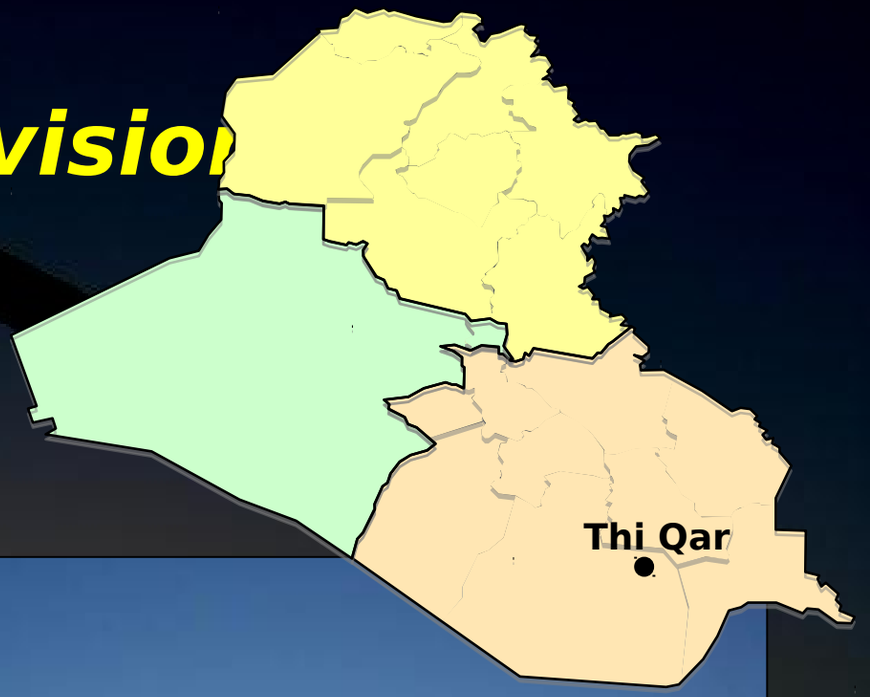
North District
Central District
South District
Al Anbar
Ninawa
Salah ad Din
Kirkuk
Al Sulaymaniyah
Diyala
Wassit
Babil
Karbala
An Najaf
Al Qadisiyah
Al Muthanna
Dhi Qar
Maysan
Al Basrah
IRAN
SAUDI ARABIA
KUWAIT

Gulf Region Divisio

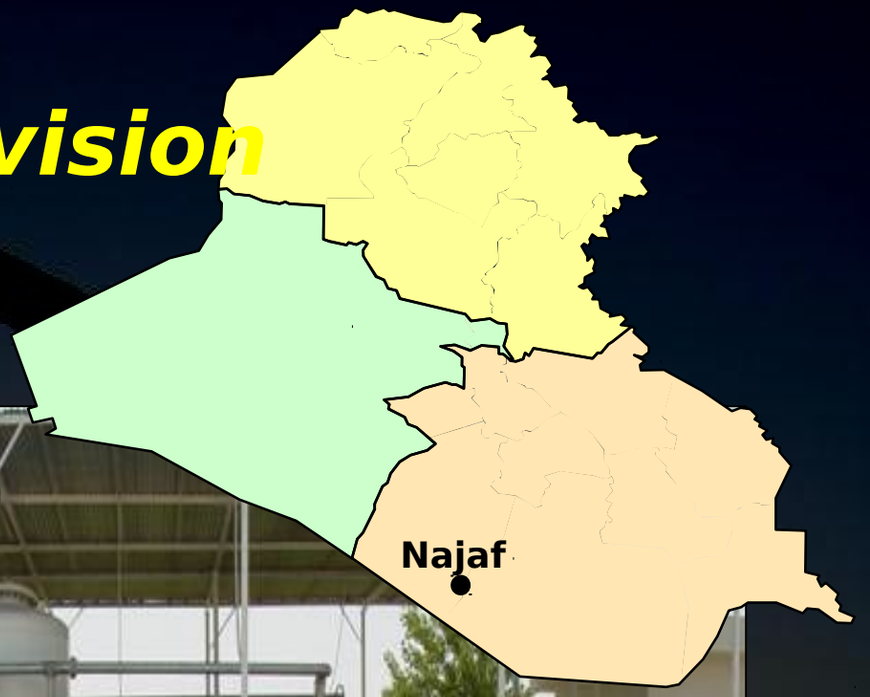
Tallil Military Medical Clinic

Construction will soon be complete on a $1.6 million

project to construct a Military Medical Clinic in the Tallil District, Thi-Qar Governorate.



Gulf Region Division



Al-Muash Water Treatment Unit

Construction completed a $236,000 Najaf Water Treatment project.

Gulf Region Division

Al Wassit Police Station

Construction is complete on a $225,000 Police Station

project in the Kut District, Wassit Governorate.

Al Mutawwi'ah Border Post

Construction is complete on a $274,600 Bo

Post project in the Al Khaseeb District, Basr Governorate.

Gulf Region Division

Al-Kasik Military Base

Construction will soon be complete on the $123.6 million Al-Kasik Military Base in Ninewa Governorate.

Gulf Region Division

Baiji Electrical Power Plant

Construction is complete on a $67.4 million project to replace two gas turbines at the Baiji Power Plant, Salah Al-Din Governorate.

This project added 270 megawatts of

Gulf Region Division

Wadi Al Morr Railway Station

Construction is complete on a $72,300 Railway Station

project in the Mosul District, Ninewa Governorate.

Diyala Village Road

Construction is complete on a $99,600 Village Road project in the Je Zane District, Diyala Governorate.

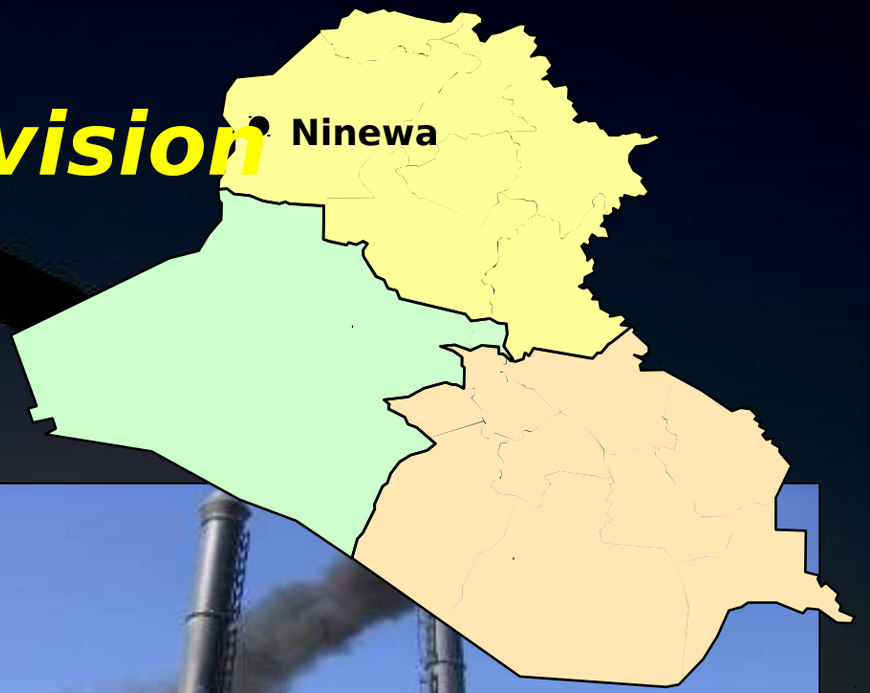
Gulf Region Division

Sinjar Fire Station

Construction is complete on a $178,500 Sinjar Fire

Station in the Ninewa Governorate.

Gulf Region Division



Qayarra Asphalt Refinery

Construction is complete on a $408,000 Qayarra Asphalt Refinery in the Ninewa Governorate.

Reconstruction Under Adversity

Baiji Power Plant, a Success Story

- Threats, intimidation, and loss of life
  - Senior project manager abducted
  - Security team member killed
  - Courage, determination
- Project completion

What Does It Cost To Work In This Type Of Environment?

- Cost plus award fee contract
- Initial estimate - $30 million
- Definitized - $59 million
- Security team attacked; security costs $9.5 million
- 165-day project takes 270 days.

Final Project cost - $67.5 million

Reconstruction Projects

Large Scale Capital Projects

10% of the Projects – 80% Program Cost

Economic Infrastructure

Burzugan natural gas power plant
Plant cost $80 million

Small Scale Projects (< $0.5M)

90% of the Projects – 20% Program Cost

Community Based

Transition Strategies: The Road to Self Reliance

- Train Iraqi Associates
  - PCO/GRD Programs Professional Iraqi workforce of +350: project managers, engineers, project controls, database management; training in systems, coaching, project management, and Quality Assurance
- Contracting Outreach
  - Public seminars; teaching Iraqi contractors how to bid; networking with women-owne
- Capacity Development
  - O&M and Sustainment
- Relationships and Ministry Collaboration

GRD/PCO IRRF
Iraqi Employment

As of 23 September 06

Sector	Iraqi Report
Buildings, Health & Education	1,775
Electricity	6,278
Oil	5,900
Public Works & Water	1,406
Security & Justice	3,486
Transportation & Communications	1,918
GRD Professional Staff *	626
AIRP	687
GRD Non-Construction	11,254
GRD Total	**33,330**
MILCON & OMA Total	**159**
GRAND TOTAL	**33,489**

* Includes GRD support staff

Large vs. Small Projects

STRATCOM Challenge

Erbil Water Treatment Plant

Cost – $201 million

Design Capacity – 6,000 M^3 per Hour

Will service 330,000 people

Contract duration: 25 months

Improve Living Environment In Basrah City (PW 90)

Cost – $941,450

The project included installing 34 km of pipe, fittings and fixtures. This project provides additional potable water delivery capability

Contract duration: 7 months

Slow/Less Visible/Long Term ⟷ **STRATCOM** ⟷ **Quick/Visible/Sho**

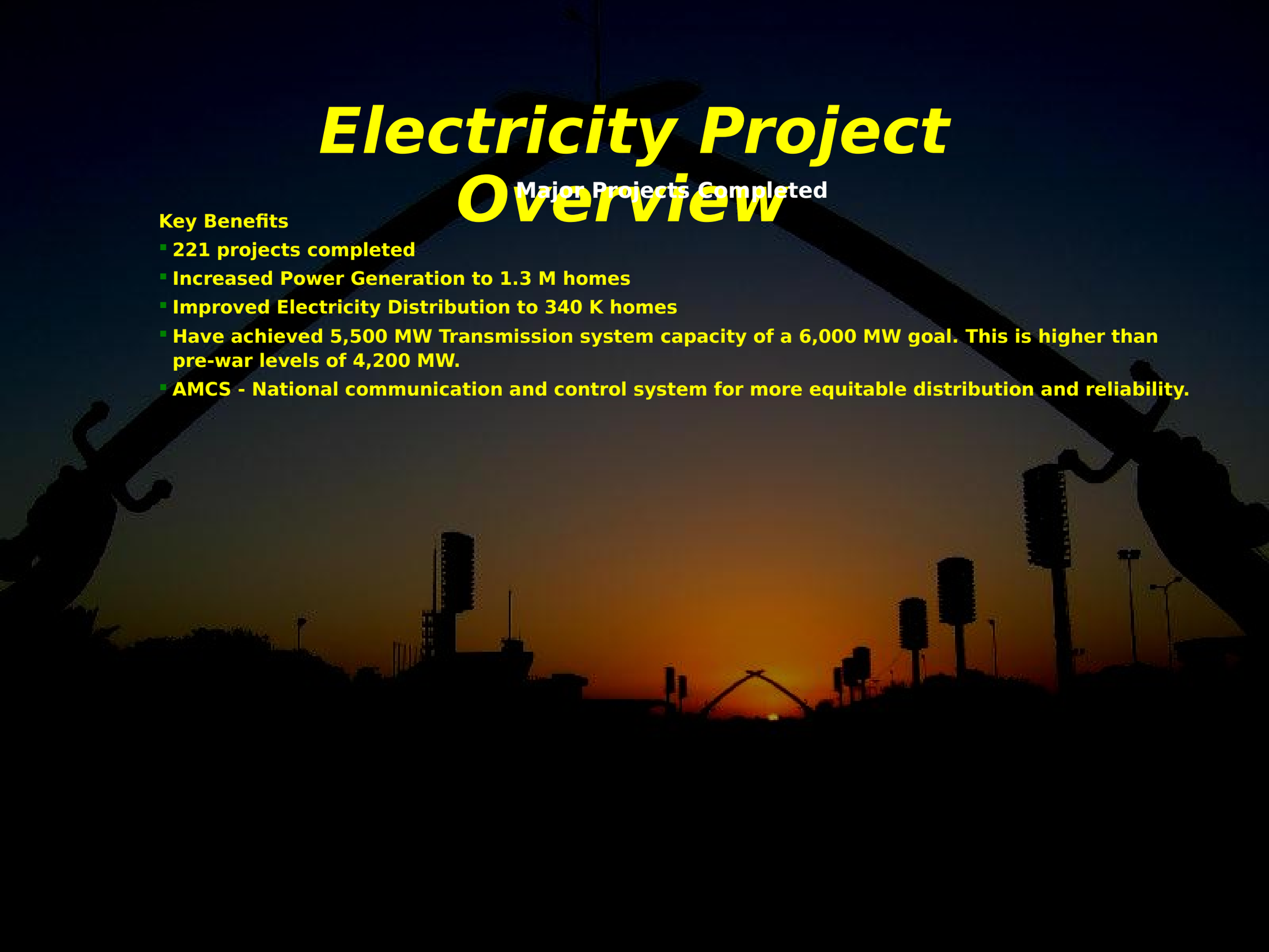
GRD/PCO Project Benchmark Construction Starts and Completions

Governorate: **ALL** Data Source: **Current Reports** Funding: **IRRF, DFI**

Sector	Plan	Starts	Ongoing	Completions
Security & Justice	1121	1052	135	917
Public Works & Water	530	440	132	308
Oil	60	39	12	27
Buildings, Health & Education	1112	1097	157	940
Transportation & Communication	390	358	83	275
Electricity	490	355	134	221
Total	**3703**	**3341**	**653**	**2688**

As of: **29 September 2006**

Electricity Project Overview



Major Projects Completed

Key Benefits

- 221 projects completed
- Increased Power Generation to 1.3 M homes
- Improved Electricity Distribution to 340 K homes
- Have achieved 5,500 MW Transmission system capacity of a 6,000 MW goal. This is higher than pre-war levels of 4,200 MW.
- AMCS - National communication and control system for more equitable distribution and reliability.

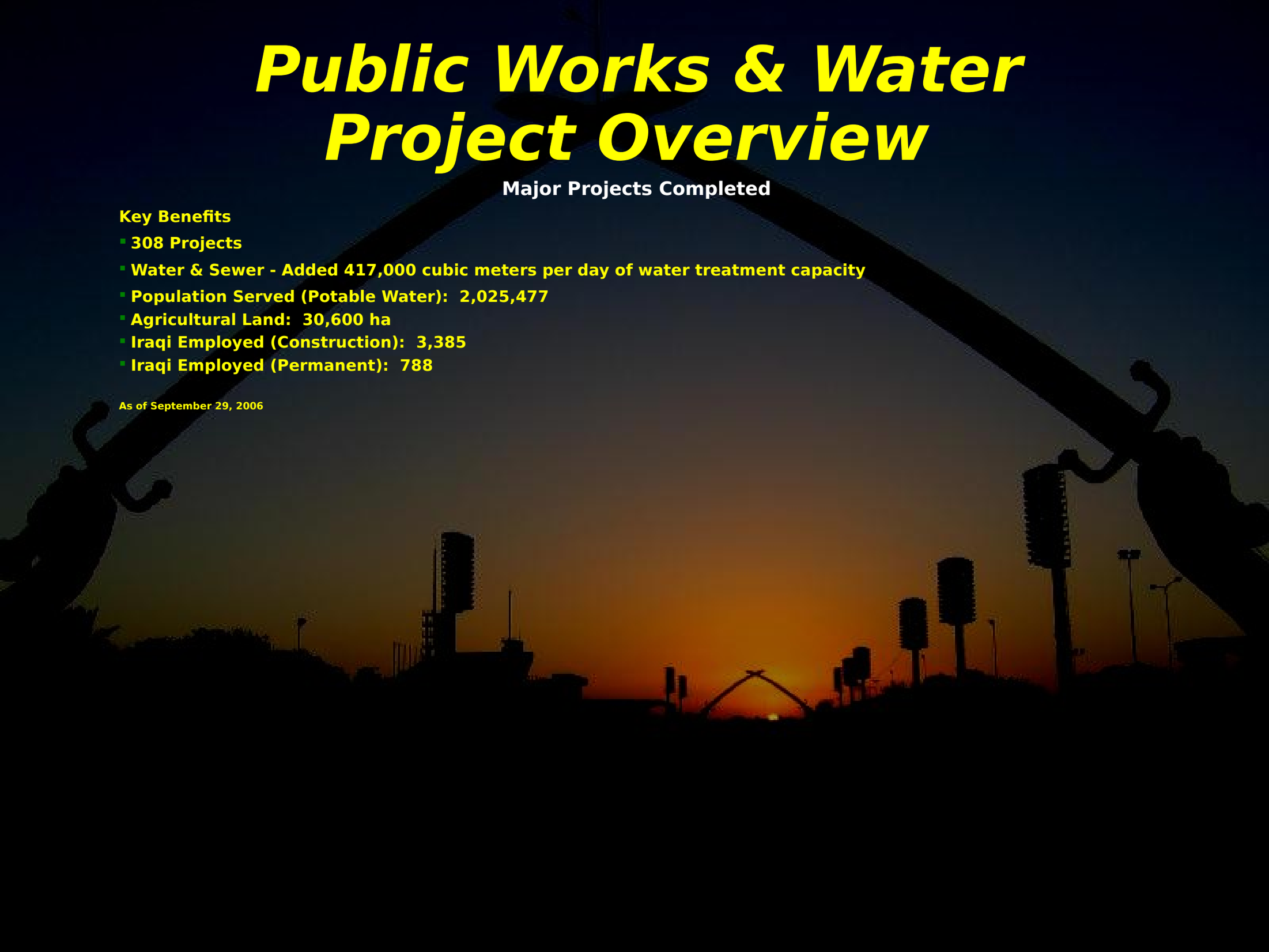
Public Works & Water Project Overview

Major Projects Completed

Key Benefits

- **308 Projects**
- **Water & Sewer - Added 417,000 cubic meters per day of water treatment capacity**
- **Population Served (Potable Water): 2,025,477**
- **Agricultural Land: 30,600 ha**
- **Iraqi Employed (Construction): 3,385**
- **Iraqi Employed (Permanent): 788**

As of September 29, 2006

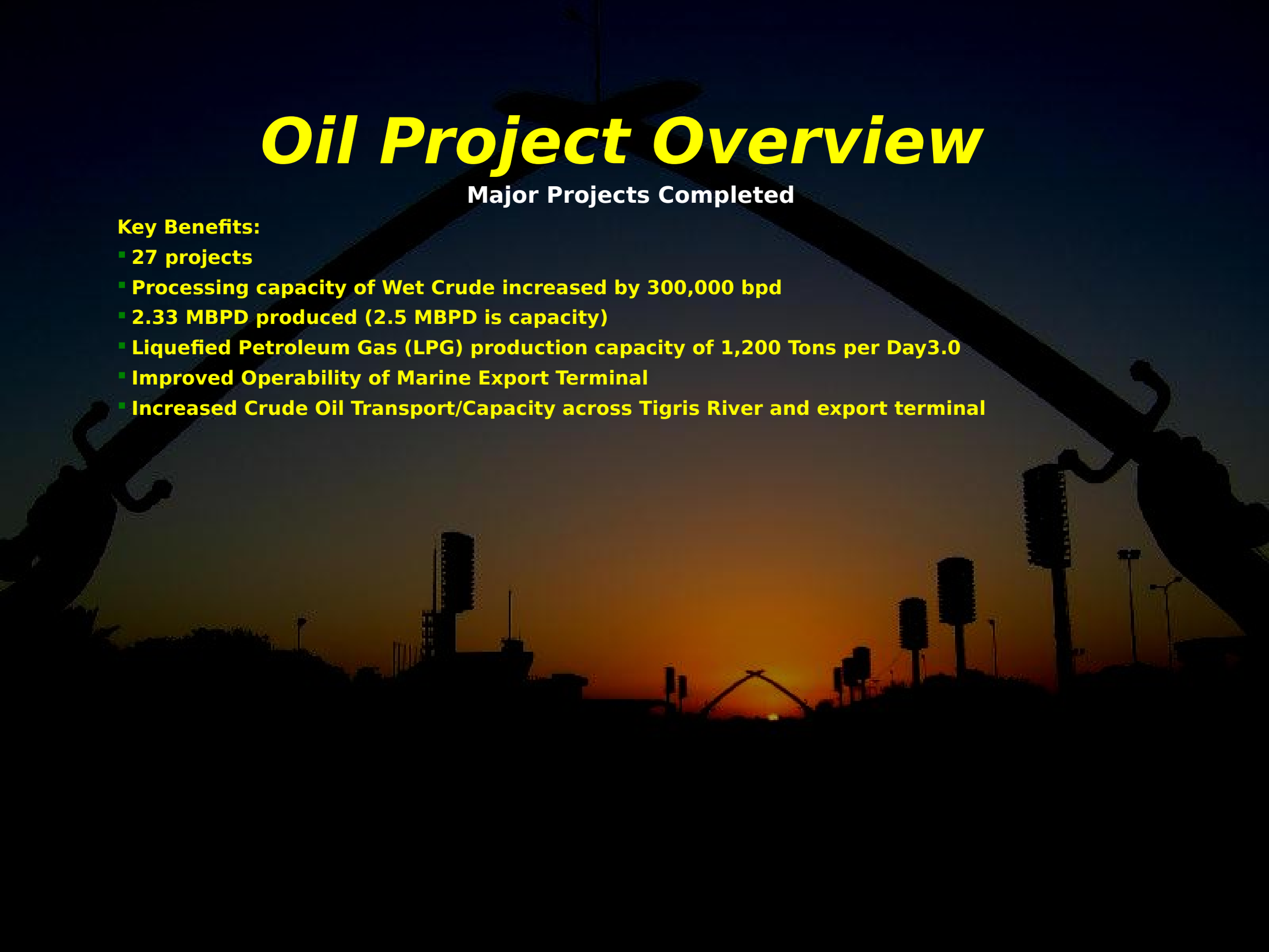


Oil Project Overview

Major Projects Completed

Key Benefits:

- **27 projects**
- **Processing capacity of Wet Crude increased by 300,000 bpd**
- **2.33 MBPD produced (2.5 MBPD is capacity)**
- **Liquefied Petroleum Gas (LPG) production capacity of 1,200 Tons per Day3.0**
- **Improved Operability of Marine Export Terminal**
- **Increased Crude Oil Transport/Capacity across Tigris River and export terminal**



Facilities & Transportation Project Overview

Major Projects Completed

Key Benefits

- **248 Border Forts – Improve security to reduce unauthorized border crossings**
- **Training Academy - Will help provide training for over 10,000 cadets**
- **AFRN - provides emergency services to over 16 million Iraqis over 14 Governorates**
- **835 schools providing classrooms for 325,000 students**

How You Can Help

- **Stay informed: www.grd.usace.army.mil**
- **Continue to Support our Men and Women in Uniform and our DOD Civilians Engaged in the Global War on Terror and Iraqi Reconstruction**

www.grd.usace.army.mil